Human KCTD15 antibody

Catalog Number: ATGA0121

PRODUCT INFORMATION

Catalog number
ATGA0121

Clone No.
AT2B11

Product type
Monoclonal Antibody

UnitProt No.
Q96SI1

NCBI Accession No.
NP_076981

Alternative Names
BTB/POZ domain-containing protein KCTD15, MGC25497, MGC2628

PRODUCT SPECIFICATION

Antibody Host
Mouse

Reacts With
Human

Concentration
1mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen
Recombinant human KCTD15(1-159aa) purified from E. coli

Isotype
IgG2b kappa

Purification Note
By protein-G affinity chromatography

Application
ELISA,WB,ICC/IF,FACS

Usage
The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

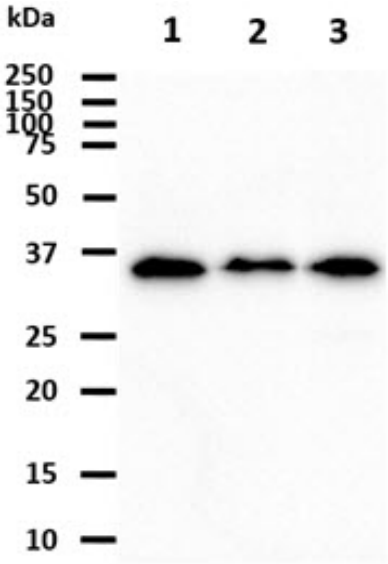
KCTD15 (Potassium channel tetramerisation domain containing 15, also known as BTB/POZ domain-containing protein KCTD15) is protein that in humans is encoded by the KCTD15 gene. KCTD15 is expressed at high level in brain and hypothalamus. The potassium channel KCTD15 was identified as a genetic loci associated with higher than normal body mass index (BMI) in humans along with genes such as GNPDA2, MTCH2, FTO, and TMEM18. Single nucleotide polymorphisms (SNPs) in non-diabetic and diabetic patients showed that FTO was most strongly associated with obesity while MTCH2 and GNPDA2 were still significantly associated with higher than normal BMI levels.

General References

Elks CE, et al. (2010) PLoS Med. 7(5): e1000284.
Strausberg RL, et al. (2002) Proc. Natl. Acad. Sci. U.S.A, 99(26): 16899-903.
Willer CJ, et al. (2010) Nat. Genet, 41(1): 24-34.

DATA

Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human KCTD15 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.
Lane 1 : HeLa cell lysate
Lane 2 : NIH/3T3 cell lysate
Lane 3 : K562 cell lysate

Immunocytochemistry/Immunofluorescence (ICC/IF)

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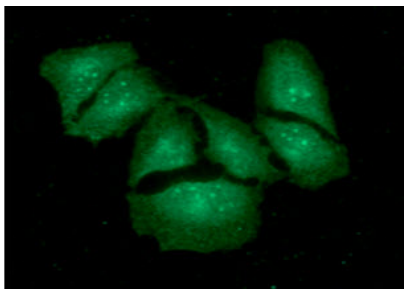
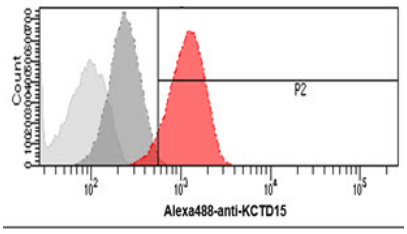


ICC/IF analysis of KCTD15 in HeLa cells. The cell was stained with ATGA0121 (1:100). The secondary antibody (green) was used Alexa Fluor 488.

Flow cytometry (FACS)



Flow cytometry analysis of KCTD15 in HeLa cells. The cell was stained with ATGA0121 at 2-5ug for 1x10^6cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).